

HYBRID HYDROGEN STORAGE CONTAINER AND METHOD OF STORING HYDROGEN IN CONTAINER

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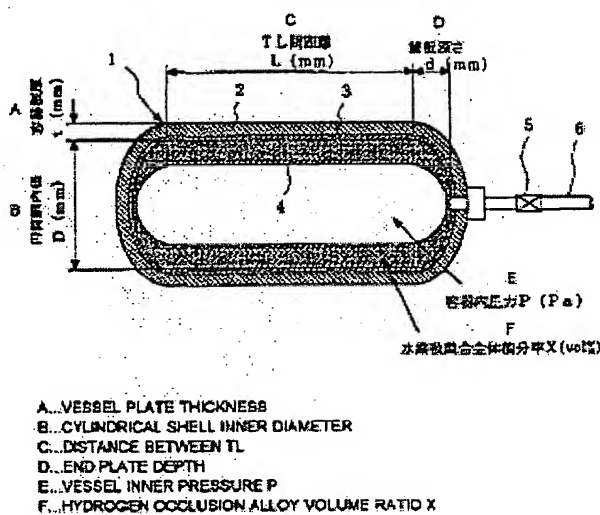
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Abstract of WO03064916

A hybrid hydrogen storage container and a method of storing hydrogen in the container, the container comprising a pressure vessel (1) allowed to fill hydrogen therein at a pressure of 30 MPa or higher and having a reinforced layer (2) and a liner layer (3), the pressure vessel (1) further comprising, therein, a hydrogen occlusion body and a carrier (4) for supporting the hydrogen occlusion body, wherein the maximum hydrogen occlusion amount (alpham) of the hydrogen occlusion body per unit volume is $\text{alpham} \geq 100 \text{ (kg/m}^3\text{)}$ and volume ratio (X) of the hydrogen occlusion body to the inside volume of the pressure vessel (1) is $5(\%) \leq X \leq 20(\%)$, where $X = 100 \cdot V_m/V_i (\%)$, V_i : inside volume (L) of pressure vessel, V_m : volume (L) of hydrogen occlusion body in pressure vessel.



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